

PROFILE

Name **Dr. S. Rajamanikandan**
Designation **Assistant Professor**
Unit **Research and Development Wing**
Affiliating Institution **Sree Balaji Medical College and Hospital
(SBMCH) - BIHER, Chennai-600 044
Tamil Nadu, India.**
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Details	Google Scholar	Scopus	Web of Science
Total citations	279	193	
h-index	10	9	
i10-index	10		
Total Impact Factor: 60.06			

Education Qualification				
S. No	Institute, Place	Degree	Year	Specialization
1.	Alagappa University, Karaikudi	Ph.D.	2018	Bioinformatics
2	Karpagam University, Coimbatore	M.Phil	2011	Bioinformatics
2.	Bharathiar University, Coimbatore	M.Sc.	2008	Bioinformatics
3.	Bharathiar University, Coimbatore	B.Sc.	2006	Biochemistry

Academic Experience			
S. No	Institute, Place	Designation	Period
1.	Sree Balaji Medical College and Hospital (BIHER), Chennai, India	Assistant Professor	Nov'2021 - Till date
2.	Alagappa University, Karaikudi, India	Research Associate	Oct'2020 - Mar'2021

3.	Beijing Computational Science Research Centre, Beijing, China	Post-Doctoral Fellow	Aug'2019 - Mar'2020
4.	National Institute of Veterinary Epidemiology and Disease Informatics, Karnataka, India	Research Fellow	Feb'2019 - Jul'2019
5	Karpagam Academy of Higher Education, Coimbatore, India	Assistant Professor	Aug'2017 - Jan'2019
6	Alagappa University, Karaikudi, India	Project Fellow	Sep'2011 - Aug'2014
7	Pentasoftware Technologies Private Ltd, Chennai, India	Bioinformatics Trainer	Aug'2008 - Feb' 2009

Publications –Articles		IF	Citation
1.	Saritha P, Rajamanikandan S , Rajmichael Raji, Thangaraj S, Prabhu D, Biswal J, Veerapandiyan M, Chitra JP, Jeyakanthan J. Computational screening of potential inhibitors targeting MurF of <i>Brugia malayi</i> Wolbachia through multi-scale molecular docking, molecular dynamics and MM-GBSA analysis. <i>Molecular and Cellular Parasitology</i> .	1.759	-
2.	Karthika A, Balajee R, Chitra J, Prabhu D, Rajamanikandan S , Veerapandiyan M, Jeyakanthan J. Molecular dynamics simulation of toxin-antitoxin (TA) system in <i>Acinetobacter baumannii</i> to explore novel mechanism for inhibition of cell wall biosynthesis: zeta toxin as an effective therapeutic target. <i>Journal of Cellular Biochemistry</i> .	4.429	-
3.	Arthur S, Li Y, Hadiatullah H, Ruifang M, Yunxuan X, Rajamanikandan S , Han Z, Zhiguang Y. (2021). Ryanodine receptor as insecticide target. <i>Current Pharmaceutical Design</i> .	3.116	-
4.	Prabhu D, Rajamanikandan S , Sureshan M, Jeyakanthan J, Saraboji K (2021). Modeling studies reveal the importance of the C-terminal inter motif loop of NSP1 as a promising target site for drug discovery and screening of potential phytochemicals to combat SARS-CoV-2. <i>Journal of Molecular Graphics and Modelling</i> .	2.51	1
5.	Shabir Ahmad Ganai, Rajamanikandan S , Gani M (2021). Exploring novel and potent molecules disrupting DEPTOR-mTOR interaction through structure-steered virtual screening, extra exactitude molecular docking, prime binding free energy estimation and vogueish molecular dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> .	3.331	-
6.	Shabir Ahmad Ganai, Srinivasan P, Rajamanikandan S , Amin Shah B, Mohan S, Gani M, Padder BA, Qadri RA, Bhat MA, Ahmad Baba Z, Ahmad Yattoo M (2021). Delineating binding potential, stability of Sulforaphane-N-acetyl-cysteine in the active site of histone deacetylase 2 and testing its cytotoxicity against distinct cancer lines through stringent molecular dynamics, DFT and	2.817	2

	cell-based assays. <i>Chemical Biology and Drug Design</i> .		
7.	Rajamanikandan S , Biruntha M, Ramalingam G (2021). Blue emissive carbon quantum dots (CDs) from bio-waste peels and its antioxidant activity. <i>Journal of Cluster Science</i> .	3.061	-
8.	Rajamanikandan S , Soundarya S, Anandhi P, Prabhu D, Jeyakanthan J, Vidhyavathi R (2020). Computational identification of potential lead molecules targeting rho receptor of <i>Neisseria gonorrhoeae</i> . <i>Journal of Biomolecular Structure and Dynamics</i> .	3.331	-
9.	Samurkas A, Fan X, Ma D, Rajamanikandan S , Lin L, Yao L, Ma R, Jiang H, Cao P, Gao Q, Yuchi Z, (2020), Discovery of potential species-specific green insecticides targeting the Leptidopteran Ryanodine Receptor. <i>Journal of Agriculture and Food Chemistry</i> , 68:4528-453.	5.279	9
10.	Prabhu D, Amala M, Saritha P, Rajamanikandan S , Veerapandiyan M, Jeyakanthan J, (2019), Functional characterization of Streptomycin adenylyltransferase from <i>Serratia marcescens</i> : An experimental approach to understand the antibiotic resistance mechanism. <i>BMC Infectious Diseases</i> .	2.56	-
11.	Prabhu D, Rajamanikandan S , Baby Anusha S, Sushma Chowdary M, Veerapandiyan M, Jeyakanthan J, (2019), <i>In silico</i> functional annotation and characterization of hypothetical proteins from <i>Serratia marcescens</i> FG194. <i>Biology Bulletin</i> .	0.37	6
12.	Rajamanikandan S , Mohanty NN, Yogisharadhya R, Jeyakanthan J, Prajapati A, Chanda MM, Shivachandra SB, (2019). Comparative sequence, structure and functional analysis of Skp protein, a molecular chaperon among members of Pasteurellaceae and its homologues in Gram-Negative bacteria. <i>Meta Gene</i> .	-	1
13.	Prabhu D, Rajamanikandan S , Saritha P, Jeyakanthan J, (2019), Evolutionary significance and functional characterization of Streptomycin adenylyltransferase from <i>Serratia marcescens</i> . <i>Journal of Biomolecular Structure and Dynamics</i> .	3.31	6
14.	Amala M, Rajamanikandan S , Prabhu D, Surekha K, Jeyakanthan J, (2018), Identification of anti-filarial leads against aspartate semialdehyde dehydrogenase of <i>Wolbachia endosymbiont</i> of <i>Brugia malayi</i> : combined molecular docking and molecular dynamics approaches. <i>Journal of Biomolecular Structure and Dynamics</i> .	3.12	15
15.	Rajamanikandan S , Jeyakanthan J, Srinivasan P, (2017), Exploring the selectivity of auto-inducer complex with LuxR using molecular docking, mutational studies and molecular dynamics simulations. <i>Journal of Molecular structure</i> , 1131: 281-293.	3.196	9

16.	Rajamanikandan S , Jeyakanthan J, Srinivasan P, (2017), Discovery of potent inhibitors targeting <i>Vibrio harveyi</i> LuxR through shape and e-pharmacophore based virtual screening and its biological evaluation. <i>Microbial Pathogenesis</i> .	3.738	15
17.	Rajamanikandan S , Jeyakanthan J, Srinivasan P, (2016), Molecular docking, molecular dynamics simulations, computational screening to design quorum sensing inhibitors targeting LuxP of <i>Vibrio harveyi</i> and its biological evaluation. <i>Journal of Applied Biochemistry and Biotechnology</i> .	2.431	25
18.	Rajamanikandan S , Jeyakanthan J, Srinivasan P, (2016), Binding mode exploration of LuxR-thiazolidinedione analogues, e-pharmacophore based virtual screening in the designing of LuxR inhibitors and its biological evaluation. <i>Journal of Biomolecular Structure and Dynamics</i> .	2.919	18
19.	Rajamanikandan S , Srinivasan P, (2016), Pharmacophore modeling and structure-based virtual screening to identify potent inhibitors targeting LuxP of <i>Vibrio harveyi</i> . <i>Journal of Receptors and Signal Transduction</i> .	2.27	11
20.	Suryanarayanan V, Sudha A, Rajamanikandan S , Vanajothi R, Srinivasan P, (2013), Atom-based QSAR studies on novel N- β -D-Xylosylindole derivatives as SGLT2 inhibitors. <i>Medicinal Chemistry Research</i> , 22: 615-624.	1.640	13
21.	Vanajothi R, Rajamanikandan S , Sudha A, Srinivasan P (2012). Structural and functional analysis of KIT gene encoding receptor tyrosine kinase and its interaction with sunitinib and HDAC inhibitors: An in silico approach. <i>Pakistan Journal of Biological Sciences</i> , 15: 121-131.	-	5
22.	Rajamanikandan S , Vanajothi R, S, Sudha A, Rameshthangam P, Srinivasan P (2012). <i>In silico</i> analysis of deleterious SNPs of the FGFR2 gene. <i>Journal of Biological Sciences</i> , 12: 83-90.	-	2
23.	Sindhu T, Rajamanikandan S , Srinivasan P, (2012), Computational prediction of phylogenetically conserved sequence motifs for five different candidate genes in type II diabetic nephropathy. <i>Iranian Journal of Public Health</i> , 41: 24-33.	1.429	1
24.	Rajamanikandan S , Sindhu T, Durgapriya D, Sophia D, Ragavendran P, Gopalakrishnan VK (2012). Protective effect of <i>Mollugo nudicaulis</i> Lam. On acute liver injury induced by perchloroethylene in experimental rats, <i>Asian Pacific Journal of Tropical Medicine</i> , 5: 862-867.	1.226	5
25.	Sindhu T, Rajamanikandan S , Srinivasan P, (2014), <i>In vitro</i> Antioxidant and Antibacterial activities of methanol extract of <i>Kyllinga nemoralis</i> . <i>Indian Journal of Pharmaceutical Sciences</i> , 76: 170-174.	0.975	9

26.	Sindhu T, Rajamanikandan S , Durgapriya D, <i>et al.</i> , (2011), Molecular docking and QSAR studies on plant derived compounds as potent inhibitors of DEK oncoprotein. <i>Asian Journal of Pharmaceutical and Clinical Research</i> , 4: 67-71.	-	21
27.	Sindhu T, Rajamanikandan S , Ragavendran P, <i>et al.</i> , (2010), Antidiabetic activity of <i>Mollugonudicaulis</i> against alloxan induced diabetic rats. <i>International Journal of Applied Biology and Pharmaceutical Technology</i> , 1: 511-19	-	5
28.	Rajamanikandan S , Sindhu T, Durgapriya D, Sophia D, Ragavendran P, Gopalakrishnan VK, (2011), Radical scavenging and antioxidant activity of <i>Mollugo nudicaulis</i> by <i>in vitro</i> assays. <i>Indian Journal of Pharmaceutical Education and Research</i> , 45: 310-316.	0.686	65
29.	Rajamanikandan S , Sindhu T, Durgapriya D, Anitha J, Akila S and Gopalakrishnan VK, (2011), Molecular docking and QSAR studies on bio active compounds isolated from marine organisms into the MUC1 oncoprotein. <i>International Journal of Pharmacy and Pharmaceutical Science</i> , 3: 168-72	-	14
30.	Balakrishnan M, Sindhu T, Rajamanikandan S , (2011), Prediction of the interaction of HIV-I integrase and Raltegravir through molecular modeling approach. <i>Journal of Pharmacy Research</i> , 4: 1391-1393.	-	-
31.	Lisina KV, Ragavendran P, Sophia D, Rajamanikandan S , Sindhu.T, Durgapriya D and Gopalakrishnan VK, (2011), A comparative study of <i>Justicaadhatoda</i> , <i>Mimosa pudica</i> and <i>Vitexnegundo</i> against hepatoprotective activity in albino rats- <i>In vivo</i> evaluation. <i>Pharmacologyonline</i> , 1: 481-491.	-	2

Book Chapters		Publisher
1.	Nachiappan M, Guru R Rao, Richard M, Prabhu D, Rajamanikandan S , Chitra JP & Jeyakanthan J. 3D Structural Determination of Macromolecules using X-ray Crystallography Methods. <i>Molecular Docking for Computer-Aided Drug Design</i> (ISBN: 978-0-12-822312-3), Pages: 119-140, 2021.	Elsevier-Academic Press
2.	Nachiappan M, Guru R Rao, Richard M, Saritha P, Amala M, Prabhu D, Rajamanikandan S , Chitra JP & Jeyakanthan J. Experimental and Computational Methods to Determine Protein Structure and Stability. <i>Frontiers in Protein Structure, Function, and Dynamics</i> (ISBN 978-981-15-5529-9), Pages: 23 – 55, 2020.	Springer Nature

Details of Conference/Workshop/Symposium	
1.	Participated in the “ International Conference on Recent Trends in Bioplastics ” at Alagappa

	University, 9 th and 10 th December, 2019, Karaikudi.
2.	Presented a poster in the “ International Conference on Computational Sciences ”, at Alagappa University, 23 rd & 24 th October, 2019, Karaikudi.
3.	Presented a poster in the “ 9th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ” at Alagappa University, 14 th to 17 th February 2017, Karaikudi.
4.	Participated in the “ World Animal Day Celebration ” at Alagappa University, 4 th October 2016.
5.	Participated in the “ International Workshop on Data Science and Analytics ” at Alagappa University, 27 th to 28 th September 2016.
6.	Participated in the “ International Workshop on Molecular Therapeutics and Experimental Medicine ” at Alagappa University, 6 th to 7 th September 2016.
7.	Presented a poster in the “ International Conference on Recent Advances in Modern Medicine: molecular signaling scenarios in tissues and diseases ” at Bharath University, 3 rd to 4 th September 2016.
8.	Presented a poster in the ‘ International Conference on Recent Trends in Biosciences ’ organized by Biosciences Departments, Alagappa University, 07 th to 09 th April 2016.
9.	Presented a poster in the “ 8th National symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ” at Alagappa University, 16 th to 19 th February 2016.
10	Presented a poster in the “ 7th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ”, at Alagappa University, 16 th to 19 th February 2015.
11	Presented a poster in the “ 6th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ”, at Alagappa University, 16 th to 19 th February 2014.
12	Presented a poster in the “ International seminar on Recent Trends in Aquatic Animal Biotechnology ” organized by Department of Animal Health and Management, at Alagappa University, 21 st to 22 nd October 2013.
13	Participated in the “ Workshop on Innovative and Creative Approaches for Sustainable Development of India ” at Alagappa University, 30 th April 2013.
14	Presented a poster in the “ 5th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ”, at Alagappa University, 19 th to 22 th February 2013.
15	Participated in the “ National Seminar on Role of Microbes in Health, Agriculture and Industry ”, at Alagappa University, 26 th to 27 th March 2012.
16	Participated in the “ National Workshop on Characterization Techniques ”, at Alagappa University, 24 th to 26 th March 2012.
17	Participated in the “ National Conference on Biodiversity and Biotechnology ”, at Prist Universtiy, 28 th to 30 th March 2012.
18	Presented a poster in the “ 4th National symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ” at Alagappa University, 20 th to 23 rd February 2012.

19	Presented a poster in the “ Bioinformatica Indica 2012- International symposium on protein-protein interaction networks ” at University of Kerala, 12 th to 14 th January 2012.
20	Presented a poster in the “ Indo-US Workshop on Biocomputing ” at National Institute of Technology, 12 th -13 th September 2011.
21	Presented a poster in the “ International conference on System Biology and Bioinformatics ” at Annamalai University, 16 th -17 th February 2011.
22	Presented a poster in the “ State level Symposium on Immunology and Infectious Diseases ” at Karpagam University, 19 th February 2010.
23	Presented a poster in the “ National Cancer Congress: Genetics, Diagnosis and Therapy ” at NGP Arts and Science College, 20 th to 21 st August, 2009.
24	Presented a poster in the “ National Seminar on Oncological Surveillance ” at Karpagam University, 31 st August 2007.
25	Participated in the “ National workshop on Python programming and data visualization ” organized by Dr.GRD College of arts and science, Coimbatore, March 17 th to 18 th , 2007.
26	Presented a poster in the “ National Seminar on Emerging Trends in Biotechnology ” at Vivekananda College of Engineering for Women, 16 th -17 th February 2007.
27	Participated in the “ HPLC, SOPs and bio-analytical techniques ” at Karpagam College of pharmacy, July 4 th to 17 th , 2007.

Awards

1.	Awarded in the Summer Research Fellowship Sponsored by INSA to work at National Centre for Cell Science under the guidance of Dr. Musti. V. Krishnasastri , for two months (14 th May 2018 to 8 th July 2018).
2.	Best Poster Presentation Award for the work presented in the “ International Conference on Recent Advances in Modern Medicine: molecular signaling scenarios in tissues and diseases ”, at Bharath University, 3 rd to 4 th September 2016.
3.	Selected as Best Abstract and received a grant to present the work in the “ Indo-US Workshop on Biocomputing ” at National Institute of Technology, 12 th -13 th September 2011.
4.	Best Poster Presentation Award for the work presented in “ International conference on System Biology and Bioinformatics ” at Annamalai University, 16 th -17 th February 2011.

Events Organized

1.	Organizing committee member in the “ International conference on Biochemical understanding for Cancer Cell Survival and Progression (ICBUCCSP-2018) ”, Karpagam Academy of Higher Education, Coimbatore during 5 th – 7 th February, 2018
2.	Organized Traditional Food Expo in the Karpagam Academy of Higher Education, Coimbatore during 25 th October, 2018.
3.	Organized Diabetes Screening Campaign in the Karpagam Academy of Higher Education, Coimbatore during 14 th November, 2018
4.	Organized Eye Screening Campaign in collaboration with Sankara Eye Hospital in the Karpagam Academy of Higher Education, Coimbatore during 3 rd and 4 th January, 2018.

Additional Responsibilities

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| 1. | Exam-Cell coordinator , Department of Biochemistry, KAHE from August 2017 to Jan 2019 |
| 2. | MOOC coordinator , Department of Biochemistry, KAHE from November 2017 to Jan 2019 |
| 3. | Health Club coordinator , Department of Biochemistry, KAHE from August 2017 to Jan 2019 |